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NPIC/TSSG/DED-1 199-68  
4 March 1968

Declass Review by NGA.

MEMORANDUM FOR THE RECORD

SUBJECT: Comparison of Specifications for [ ] PI Print Enlarger and [ ]  
3002 Viewer-Printer

25X1

REFERENCE: 1) [ ] Technical Proposal, [ ] 66-3557-1, NPIC #153/66  
2) Contract [ ]  
3) Specification RADC-5236

25X1

1. References 1 and 2 comprise the specifications for [ ] print enlarger under Project #10147. This work has been under contract with NPIC since 27 February 1967. Reference 3 is Rome Air Development Center's specifications for a similar print enlarger also developed [ ]. This memorandum compares the specifications for the two print enlargers. This memorandum will hereinafter call the unit now under Contract with NPIC the NPIC Enlarger and the other unit the Air Force Enlarger. Since the specifications are not worded alike, it is sometimes difficult to distinguish their differences. Following are listings of significant differences between these two enlargers.

25X1

2. Specifications for the NPIC Enlarger not Called for in the Air Force Enlarger

25X1

2.1. Film chips can be viewed and printed (may be possible on Air Force Enlarger, but not specified).

2.2. Reproduction paper widths of 10 or 20 inches (Width not specified on Air Force Enlarger)

2.3. Warning light indicates when duplicating material supply is low.

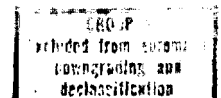
3. Specifications for Air Force Enlarger not Called for in NPIC Enlarger

3.1. Military Specification, MIL-E-4158, Electronic Equipment, Ground, General Requirements For.

3.2. Military Specification, MIL-F-14072, Finishes for Ground Signal Equipment.

3.3. Military Specification, MS-265 65, Spool-Photographic, Aerial.

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3.4. Military Standards, MIL-STD-108, Definitions of, and Basic Requirements for Enclosures for Electric and Electronic Equipment.

3.5. Military Standards, MIL-STD-150, Photographic Lenses.

3.6. Federal Standards, FED-STD-595, Colors.

3.7. Climatic operating conditions specified as +140°F to 110°F and RH of up to 95% at 110°F.

3.8. Fungus resistance called for.

3.9. Meantime between failure of at least 500 hours.

3.10. Mean preventative maintenance not to exceed 15 minutes

3.11. Mean corrective maintenance time not to exceed 30 minutes.

3.12. Film can be annotated while it is in the film gate.

3.13. Film can be viewed from light table or from rear projection screen.

3.14. Image can be rotated 180°.

3.15. One minute design goal, 2 minute max time for film loadings.

3.16. End of roll sensors on both spools required.

3.17. Manual back-up transport system.

3.18. Max Film temperature in film gate specified.

3.19. Optical system designed for color and black and white photography.

3.20. Acceptance test is specified.

4. Differences between the two Enlargers

4.1. NPIC-2,4,7,10 and 20X Enlargement  
AF-2.5, 5, 10, 20

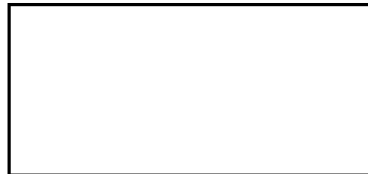
4.2. NPIC-20" screen  
AF-22 1/2 screen

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- 4.3. NPIC-40-400 foot-lamberts on screen.  
AF-60-600 foot-lamberts
- 4.4. NPIC-Y transport switch/X transport manual  
AF-X and Y transport by joystick
- 4.5. NPIC-83 3/4" high X 86 1/8" X 36"  
AF-72" high X 90" X 34"
- 4.6. NPIC-Variation in viewing screen illumination not to exceed 20%  
AF-Variation in viewing screen illumination not to exceed 40%



TSSG/DED/RQDB

25X1

**Distribution:**

Orig - Rt & File  
1 - Chrono

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25X1

*Per [redacted]*

*info you requested*  
*Plb*

PI PRINT ENLARGED

25X1

[redacted]

*Delivery*  
*(April go-ahead)*  
*7 mo.*

*Time Price*

3002 (Air Force)

**F.P.**

3004 (NPIC)

*4-5 mo.*

**?**

*28 March 1968*

*Above info given to*

[redacted]

*verbally,*

25X1

25X1

*by*

[redacted]

*this A.M.*

*Plb*

*6/7*